ABSTRACT

A system for rapidly and accurately delivering sterile fluid in a surgical environment comprises: (1) a strain gauge sensor; (2) a container of fluid connected to the strain-gauge sensor so that the strain-gauge sensor can generate an electrical output proportional to the weight of the fluid and container from time-to-time; (3) a pump system for pumping fluid from the container and having adjustable speed control for delivery of fluids within the range of 30 ml/min to 1000 ml/min; (4) a sterile tubing set connected to the fluid source and passing through the pump system and for delivery of the fluid to the surgical environment (i.e., a patient or implantable device); (5) a processor for processing the electrical output from the strain gauge from time-to-time to determine the amount of fluid delivered to the surgical environment; and (6) a display for displaying the amount of fluid delivered to the surgical device.

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